



JPW

PATENT
Attorney Docket No. ZCO-100

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S): Bredt *et al.* CONFIRMATION NO.: 4783
SERIAL NO.: 10/848,831 GROUP NO.: 1772
FILING DATE: May 19, 2004 EXAMINER: Not yet assigned
TITLE: THERMOPLASTIC POWDER MATERIAL SYSTEM FOR
APPEARANCE MODELS FROM 3D PRINTING SYSTEMS

CERTIFICATE OF FIRST CLASS MAILING UNDER 37 C.F.R. 1.8

I hereby certify that this correspondence, and any document(s) referred to as enclosed herein, is/are being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this 5th day of October, 2004.


Emily Walsh

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith are:

1. Transmittal Form (1 pg.);
2. Information Disclosure Statement (2 pgs.);
3. Form PTO-1449 (5 pgs.);
4. Copies of Cited References B1-B11 and C1-C4; and a
5. Return Receipt Postcard.

3111476



TRANSMITTAL FORM

Application Serial Number	10/848,831
Filing Date	May 19, 2004
First Named Inventor	Bredt
Group Art Unit	1772
Examiner Name	Not yet assigned
Attorney Docket No.	ZCO-100
Patent No.	Not applicable
Issue Date	Not applicable

ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Check Attached <input type="checkbox"/> Copy of Fee Transmittal Form	<input type="checkbox"/> Copy of Notice to File Missing Parts of Application	<input type="checkbox"/> Notice of Appeal to Board of Patent Appeals and Interferences
<input type="checkbox"/> Amendment/Response <input type="checkbox"/> Preliminary <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Letter to Official Draftsperson including Drawings [Total Sheets ____]	<input type="checkbox"/> Formal Drawing(s)	<input type="checkbox"/> Appeal Brief (in triplicate)
<input type="checkbox"/> Petition for Extension of Time	<input type="checkbox"/> Request For Continued Examination (RCE) Transmittal	<input type="checkbox"/> Status Inquiry
<input checked="" type="checkbox"/> Information Disclosure Statement <input checked="" type="checkbox"/> Form PTO-1449 <input checked="" type="checkbox"/> Copies of IDS Citations B1-B11 and C1-C4	<input type="checkbox"/> Power of Attorney (Revocation of Prior Powers)	<input checked="" type="checkbox"/> Return Receipt Postcard
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> Terminal Disclaimer	<input checked="" type="checkbox"/> Certificate of First Class Mailing under 37 C.F.R. 1.8
<input type="checkbox"/> Sequence Listing submission <input type="checkbox"/> Paper Copy/CD <input type="checkbox"/> Computer Readable Copy <input type="checkbox"/> Statement verifying identity of above	<input type="checkbox"/> Executed Declaration and Power of Attorney for Utility or Design Patent Application	<input type="checkbox"/> Certificate of Facsimile Transmission under 37 C.F.R. 1.8
	<input type="checkbox"/> Notification Regarding Small Entity Status under 37 C.F.R. 1.27	<input type="checkbox"/> Additional Enclosure(s) (please identify below)
	<input type="checkbox"/> CD(s) for large table or computer program	
	<input type="checkbox"/> Amendment After Allowance	
	<input type="checkbox"/> Request for Certificate of Correction <input type="checkbox"/> Certificate of Correction (in duplicate)	

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Respectfully submitted,

Date: October 5, 2004
Reg. No. 44,381
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PATENT
Attorney Docket No. ZCO-100

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Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the provisions of 37 C.F.R. 1.97 and 1.98, Applicants hereby make of record the patents and publications listed on the accompanying Form PTO-1449, and other information contained herein, for consideration by the Examiner in connection with the examination of the above-identified patent application. In accordance with the U.S. Patent Office's partial waiver of the requirement under 37 C.F.R. 1.98(a)(2)(i), only copies of the foreign patent documents and non-patent publications are enclosed.

REMARKS

In accordance with the provisions of 37 C.F.R. 1.97, this statement is being filed (CHECK ONE):

- ☒ (1) within three (3) months of the **filing date** of a national application other than a continued prosecution application under 37 C.F.R. 1.53(d), or within three (3) months of the **date of entry of the national stage** as set forth in 37 C.F.R. 1.491 in an international application, or before the mailing of the **first Office action** on the merits, or before the mailing of a **first Office action** after the filing of a request for continued examination under 37 C.F.R. 1.114; or
- ☐ (2) after the period defined in (1) but before the mailing date of a **final action** or a **notice of allowance** under 37 C.F.R. 1.311, and
- ☐ the requisite Statement is below, **OR**

- ☐ the requisite fee under 37 C.F.R. 1.17(p), namely **\$180.00**, is included herein, or
- ☐ (3) after the mailing date of a **final action** or **notice of allowance** but before the payment of the **issue fee**, **AND**
- ☐ the requisite Statement is below, **AND**
- ☐ the requisite petition fee under 37 C.F.R. 1.17(p), namely **\$180.00** is included herein.

It is respectfully requested that each of the patents and publications listed on the attached Form PTO-1449, and other information contained herein, be made of record in this application.

In addition, Applicants wish to inform the Examiner about the following co-pending patent applications, including the Office actions issued therein:

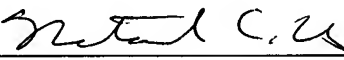
- 1) 09/706,350, filed on November 3, 2000, by Brecht *et al.*;
- 2) 09/835,292, filed on April 13, 2001, by Brecht *et al.*;
- 3) 10/255,139, filed on September 25, 2002, by Brecht *et al.*;
- 4) 10/650,086, filed on August 26, 2003, by Brecht *et al.*; and
- 5) 10/926,172, filed on August 25, 2004, by Brecht *et al.*

Respectfully submitted,

Date: October 5, 2004
Reg. No. 44,381

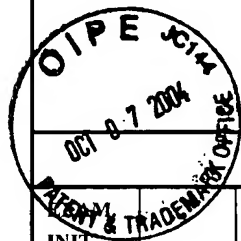
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3111489



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FORM PTO - 1449 INFORMATION DISCLOSURE STATEMENT				ATTORNEY DOCKET NO.: ZCO-100 APPLICANT(S): Bredt <i>et al.</i> SERIAL NO.: 10/848,831 FILING DATE: May 19, 2004 GROUP: 1772			
U.S. PATENT DOCUMENTS							
INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	A1	2002/0106412	08/08/2002	Rowe <i>et al.</i>			
	A2	2004/0038009	02/26/2004	Leyden <i>et al.</i>			
	A3	2,522,548	09/19/1950	Streicher			
	A4	3,525,632	08/25/1970	Enoch			
	A5	3,821,006	06/28/1974	Schwartz			
	A6	3,926,870	12/16/1975	Keegan <i>et al.</i>			
	A7	3,930,872	01/06/1976	Toeniskoetter <i>et al.</i>			
	A8	4,369,025	01/18/1983	von der Weid			
	A9	4,444,594	04/24/1984	Paddison <i>et al.</i>			
	A10	4,665,492	05/12/1987	Masters			
	A11	4,755,227	07/05/1988	Sherif <i>et al.</i>			
	A12	4,758,278	07/19/1988	Tomic			
	A13	4,863,538	09/05/1989	Deckard			
	A14	4,938,816	07/03/1990	Beaman <i>et al.</i>			
	A15	4,944,817	07/31/1990	Bourell <i>et al.</i>			
	A16	5,017,753	05/21/1991	Deckard			
	A17	5,053,090	10/01/1991	Beaman <i>et al.</i>			
	A18	5,076,869	12/31/1991	Bourell <i>et al.</i>			
	A19	5,132,143	07/21/1992	Deckard			
	A20	5,147,587	09/15/1992	Marcus <i>et al.</i>			
	A21	5,154,762	10/13/1992	Mitra <i>et al.</i>			
	A22	5,155,324	10/13/1992	Deckard <i>et al.</i>			
	A23	5,176,188	01/05/1993	Quinn <i>et al.</i>			
EXAMINER				DATE CONSIDERED			



FORM PTO - 1449				ATTORNEY DOCKET NO.: ZCO-100			
INFORMATION DISCLOSURE STATEMENT				APPLICANT(S): Bredt <i>et al.</i>			
				SERIAL NO.: 10/848,831			
				FILING DATE: May 19, 2004 GROUP: 1772			
U.S. PATENT DOCUMENTS							
EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	A24	5,204,055	04/20/1993	Sachs <i>et al.</i>			
	A25	5,252,264	10/12/1993	Forderhase <i>et al.</i>			
	A26	5,296,062	03/22/1994	Bourell <i>et al.</i>			
	A27	5,301,415	04/12/1994	Prinz <i>et al.</i>			
	A28	5,316,580	05/31/1994	Deckard			
	A29	5,340,656	08/23/1994	Sachs <i>et al.</i>			
	A30	5,342,919	08/30/1994	Dickens <i>et al.</i>			
	A31	5,352,405	10/04/1994	Beaman <i>et al.</i>			
	A32	5,382,308	01/17/1995	Bourell <i>et al.</i>			
	A33	5,393,613	02/28/1995	MacKay			
	A34	5,429,788	07/04/1995	Ribble <i>et al.</i>			
	A35	5,430,666	07/04/1995	DeAngelis <i>et al.</i>			
	A36	5,433,280	07/18/1995	Smith			
	A37	5,460,758	10/24/1995	Langer <i>et al.</i>			
	A38	5,490,882	02/13/1996	Sachs <i>et al.</i>			
	A39	5,490,962	02/13/1996	Cima <i>et al.</i>			
	A40	5,518,680	05/21/1996	Cima <i>et al.</i>			
	A41	5,527,877	06/18/1996	Dickens <i>et al.</i>			
	A42	5,536,467	07/16/1996	Reichle <i>et al.</i>			
	A43	5,593,531	01/14/1997	Penn			
	A44	5,595,597	01/21/1997	Fogel <i>et al.</i>			
	A45	5,597,589	01/28/1997	Deckard			
	A46	5,616,294	04/01/1997	Deckard			
EXAMINER				DATE CONSIDERED			

FORM PTO - 1449				ATTORNEY DOCKET NO.: ZCO-100			
INFORMATION DISCLOSURE STATEMENT				APPLICANT(S): Bredt <i>et al.</i>			
				SERIAL NO.: 10/848,831			
				FILING DATE: May 19, 2004		GROUP: 1772	
U.S. PATENT DOCUMENTS							
EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	A47	5,622,577	04/22/1997	O'Connor			
	A48	5,632,848	05/27/1997	Richards <i>et al.</i>			
	A49	5,637,175	06/10/1997	Feygin <i>et al.</i>			
	A50	5,639,070	06/17/1997	Deckard			
	A51	5,639,402	06/17/1997	Barlow <i>et al.</i>			
	A52	5,640,667	06/17/1997	Freitag <i>et al.</i>			
	A53	5,648,450	07/15/1997	Dickens <i>et al.</i>			
	A54	5,653,925	08/05/1997	Batchelder			
	A55	5,658,712	08/19/1997	Steinmann <i>et al.</i>			
	A56	5,660,621	08/26/1997	Bredt			
	A57	5,697,043	12/09/1997	Baskaran <i>et al.</i>			
	A58	5,730,925	03/24/1998	Mattes <i>et al.</i>			
	A59	5,733,497	03/31/1998	McAlea <i>et al.</i>			
	A60	5,749,041	05/05/1998	Lakshminarayan <i>et al.</i>			
	A61	5,753,171	05/19/1998	Serbin <i>et al.</i>			
	A62	5,753,274	05/19/1998	Wilkening <i>et al.</i>			
	A63	5,772,947	06/30/1998	Hull <i>et al.</i>			
	A64	5,805,971	09/08/1998	Akedo			
	A65	5,851,465	12/22/1998	Bredt			
	A66	5,870,307	02/09/1999	Hull <i>et al.</i>			
	A67	5,902,441	05/11/1999	Bredt <i>et al.</i>			
	A68	5,902,537	05/11/1999	Almquist <i>et al.</i>			
	A69	5,976,339	11/02/1999	André			
EXAMINER				DATE CONSIDERED			

FORM PTO - 1449				ATTORNEY DOCKET NO.: ZCO-100					
INFORMATION DISCLOSURE STATEMENT				APPLICANT(S): Bredt <i>et al.</i>					
				SERIAL NO.: 10/848,831					
				FILING DATE: May 19, 2004		GROUP: 1772			
U.S. PATENT DOCUMENTS									
EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE		
	A70	6,007,318	12/28/1999	Russell <i>et al.</i>					
	A71	6,112,109	08/29/2000	D'Urso					
	A72	6,136,088	10/24/2000	Farrington					
	A73	6,147,138	11/14/2000	Höchsmann <i>et al.</i>					
	A74	6,193,922	02/27/2001	Ederer					
	A75	6,299,677	10/09/2001	Johnson <i>et al.</i>					
	A76	6,397,922	06/04/2002	Sachs <i>et al.</i>					
	A77	6,403,002	06/11/2002	van der Geest					
	A78	6,416,850	07/09/2002	Bredt <i>et al.</i>					
	A79	6,423,255	07/23/2002	Hoechsmann <i>et al.</i>					
	A80	6,610,429	08/26/2003	Bredt <i>et al.</i>					
FOREIGN PATENT DOCUMENTS									
EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG (Y/N)
	B1	101 58 233	03/13/2003	DE				N	Abstract only
	B2	198 53 834	05/31/2000	DE				Y	Y
	B3	0 431 924	06/12/1991	EP				N	Y
	B4	2001-162351	06/19/2001	JP				N	Abstract only
	B5	WO 93/25336	12/23/1993	PCT				N	Y
	B6	WO 95/30503	11/16/1995	PCT				N	Y
	B7	WO 97/26302	07/24/1997	PCT				N	Y
	B8	WO 98/09798	03/12/1998	PCT				N	Y
EXAMINER					DATE CONSIDERED				

FORM PTO - 1449 INFORMATION DISCLOSURE STATEMENT					ATTORNEY DOCKET NO.: ZCO-100 APPLICANT(S): Bredt <i>et al.</i> SERIAL NO.: 10/848,831 FILING DATE: May 19, 2004 GROUP: 1772				
FOREIGN PATENT DOCUMENTS									
EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG (Y/N)
	B9	WO 98/28124	07/02/1998	PCT				N	Y
	B10	WO 00/26026	05/11/2000	PCT				N	Y
	B11	WO 01/34371	05/17/2001	PCT				N	Y
OTHER ART, JOURNAL ARTICLES, ETC.									
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)								
	C1	Borland, "Characterization of Fundamental and Reticulated Biomedical Polymer Structures Fabricated by Three Dimensional Printing," Thesis, MIT, June 1995.							
	C2	Ederer, "A 3D Print Process for Inexpensive Plastic Parts," Presentation for the Austin Solid Freeform Conference, 1995.							
	C3	German, <u>Powder Injection Molding</u> , (1990), pp. 32-43 and 92-95.							
	C4	Khanuja, "Origin and Control of Anisotropy in Three Dimensional Printing of Structural Ceramics," Thesis, MIT, February 1996.							
EXAMINER					DATE CONSIDERED				

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